

# Bringing People Closer Together

## Communicating Without Borders



### Express yourself better with double frame rate

60FPS double frame rate in HD resolution makes your communication smoother. With integrated 9ch MCU function, you no longer need to make an investment on separate multi communication unit.

1080P  
Full HD

60  
FPS

9ch  
MCU



Visual Communication Systems

# SPECIFICATIONS

	Model Name	PCS-XG100S	PCS-XG77S
Camera (Optional EVI-H100V camera)	Image Sensor	1/2.8-type "Exmor" CMOS image sensor	
	Image Sensor (Number of Effective Pixels)	Approx. 3.27 Megapixels	
	Output Pixels (H x V)	1920 x 1080	
	Frame Rate	29.97 fps	
	S/N Ratio	50 dB	
	Brightness Control	Auto/Manual	
	Zoom Ratio	x240 zoom (x20 optical zoom, x12 digital zoom)	
	Focusing System	Auto/Manual	
	Horizontal Viewing Angle	Approx. 55.4°	
	Focal Length	f = 4.7 mm to 94.0 mm	
	F-Number	F1.6 to F3.5	
	Pan/Tilt Angle	Pan ±170° / Tilt +90°-20°	
	Preset Position	100 positions (Saved in Codec Unit)	
Power Supply	Supplied from Codec Unit		
Other Features	Auto Gain Control, Auto White Balance, Backlight Compensation, Ceiling Mountable (Image Flip), VISCA output to the second camera		
Key Features	Multipoint Capability	Up to 9 sites (H.323) with optional software PCSA-MCG109. (6 sites with H.320) <sup>1</sup>	
		10 to 16 sites (H.323) requires two PCS-XG100S units with optional software PCSA-MCG109 using cascaded connection. (10 sites with H.320) <sup>1</sup>	
	Data Sharing	PC images up to 1080p resolution is supported	PC images up to SXGA resolution is supported
	Lip Synchronization	Video annotation function AUTO/OFF	
	Mic Off Function	ON/OFF	
Streaming/Recording Feature	HD 720p		
Video	Maximum Frame Rate	H.261 QCIF 30 fps, CIF 30 fps, H.263 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps	
		H.264 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps, wCIF 30 fps, w432p 30 fps, w4CIF 30 fps, 720p 60 fps, 1080p 60 fps	H.264 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps, wCIF 30 fps, w432p 30 fps, w4CIF 30 fps, 720p 60 fps
	Communication Protocol Standards	H.261 <sup>2</sup> , H.263, H.263+, H.263++, H.264, H.264 High profile, MPEG-4 SP@L3	
	Resolution	4:3 QCIF (176 x 144), CIF (352 x 288), 4CIF (704 x 576)	
	Bit Rate	64 kbps to 16,000 kbps	64 kbps to 4,096 kbps
Audio	Screen Layout	Full Screen, PinP, PandP, SideBySide, PandPandP	
	Bandwidth and Coding	MPEG-4 AAC Stereo: 22 kHz at 192 kbps (IP only) MPEG-4 AAC Mono: 14 kHz at 48 kbps, 64 kbps, 96 kbps MPEG-4 AAC Mono: 22 kHz at 64 kbps, 96 kbps (IP only) G.711: 3.4 kHz at 56 kbps, 64 kbps G.722: 7.0 kHz at 48 kbps, 56 kbps, 64 kbps G.728: 3.4 kHz at 16 kbps	
	Other Features	Stereo echo-cancelling (ON/OFF), Auto Gain Control, Noise Reduction	
Network	Protocols	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP	
	QoS (Quality of Service)	Adaptive FEC (Forward Error Correction), Real-time ARQ (Auto Repeat reQuest), ARC (Adaptive Rate Control), IP Precedence, DiffServe	
Interface	Other Network Features	Packet reordering, TCP/UDP port setting, NAT, PPPoE, UDP shaping, Encryption, Auto gatekeeper discovery, UPnP, URI Dialing, IPv6	
	Video Input	External video inputs (HDMI x 1, DVI-I x 2)	
	Video Output	HDMI x 2, DVI-I x 1	
	Control Input	RS-232C x 1	
	Audio Input	External analog microphone input Mini-jack (Plug in power) x 6 (L/R)	
		HDMI (video, audio) x 1	
		Audio Input (MIC/AUX) x 2 (Phono jack, stereo)	
	Audio Output	HDMI (video, audio) x 1, Line Output (Phono jack, stereo) x 1, REC Output (Phono jack, stereo) x 1	
	Network Port	10BASE-T/100BASE-TX/1000BASE-T x 2, ISDN Unit Interface x 1	10BASE-T/100BASE-TX/1000BASE-T x 1, ISDN Unit Interface x 1
	USB Slots	2 (Pen Tablet, USB Memory)	
	Maintenance Interface	RS-232C x 1	
	Standard	Communication Protocol Standards	ITU-T H.320 <sup>1</sup> , H.323, IETF SIP
ITU-T (excluding audio/video standards)		H.231, H.241 H.242, H.243, H.245, H.350, H.460.18, H.460.19	
IETF		RFC2190, RFC3016, RFC3047, RFC3261, RFC3264, RFC3550, RFC3984, RFC4573, RFC4587, RFC4629, RFC4856, RFC4628, RFC5168	
Encryption		H.233, H.234, H.235 ver.3	
Far End Camera Control		H.224, H.281	
Frame Format		H.221, BONDING, H.225.0	
Dual Stream	H.239 (video and presentation data)		
General	Power Requirements	DC 19.5 V (AC Adapter) : AC 100 V to 240 V, 50/60 Hz	
	Power Consumption	58.5W	
	Power Consumption (Standby)	23.4W	
	Operating Temperature	5°C to 35°C 41°F to 95°F	
	Storage Temperature	-20°C to +60°C -4°F to +140°F	
	Operating Humidity	20% to 80% (no condensation)	
	Storage Humidity	20% to 80% (no condensation)	
	Dimensions (W x H x D)	Codec: Approx. 370 x 60 x 244 mm (excluding protrusions) Camera unit (optional EVI-H100V): Approx. 145 x 164 x 164mm (excluding protrusions)	
	Mass	Codec: Approx. 2.3 kg Camera Unit (optional EVI-H100V): Approx. 1.55 kg	
	Supplied Accessories	PCS-A1 microphones (2), PCS-A1 microphones (1), AC adapter (1), HDMI cable (3m) (1), RF Remote Commander Unit (1), Batteries for Remote Commander unit (2), CD-ROM (Operating instructions, Before using this unit, Quick connection guide) (1), Before using this unit (1), Installation Guide (1), Quick connection guide (1), Warranty booklet (1), Camera cable (3m) for HD camera (1)	

<sup>1</sup> H.320 will be available as V1.1 <sup>2</sup> H.261 in H.323 will be available as V1.1

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